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United States Patent [19]

Yamasaki et al.

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[54] **SOLDER BALL INTERPOSER**

4,950,874 8/1990 Damitio et al. 200/5 A
5,847,336 12/1998 Thornton 200/5 A

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[73] Assignee: **NGK Spark Plug Co., Ltd,** Japan

[57] **CLAIM**

[*] Notice: This patent is subject to a terminal disclaimer.

The ornamental design for a solder ball interposer, as shown.

[**] Term: **14 Years**

DESCRIPTION

[21] Appl. No.: **29/095,361**

FIG. 1 is a top, plan view of a solder ball interposer according to the present design.

[22] Filed: **Oct. 21, 1998**

FIG. 2 is a front, elevational view of a solder ball interposer according to the present design.

[51] **LOC (6) Cl.** **15-99**

[52] **U.S. Cl.** **D15/199**

FIG. 3 is a right side elevational view of a solder ball interposer according to the present design.

[58] **Field of Search** D10/46; D15/122;
200/54, 246, 283, 517

FIG. 4 is a left side elevational view of a solder ball interposer according to the present design; and,

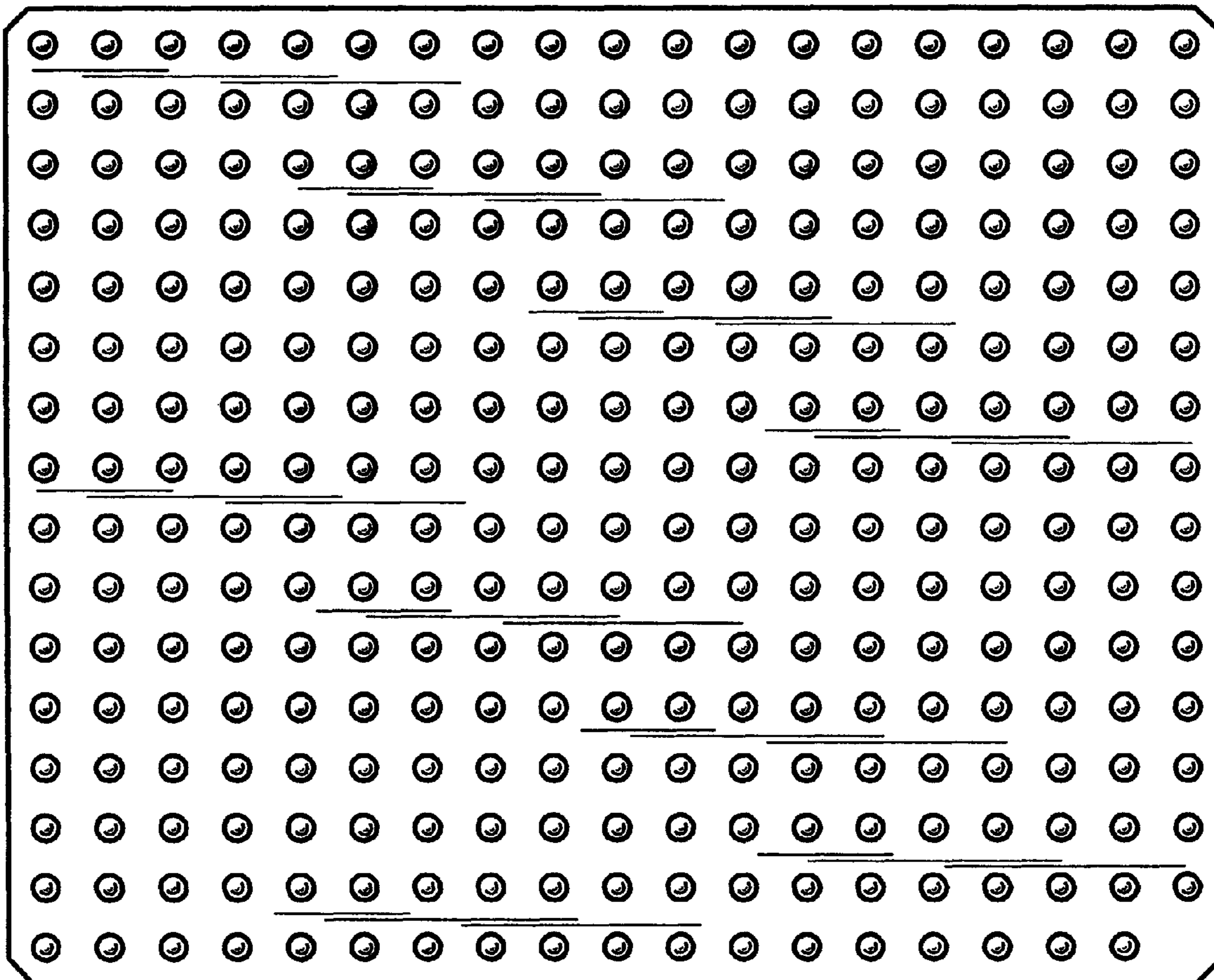
FIG. 5 is a bottom, plan view of a solder ball interposer according to the present design.

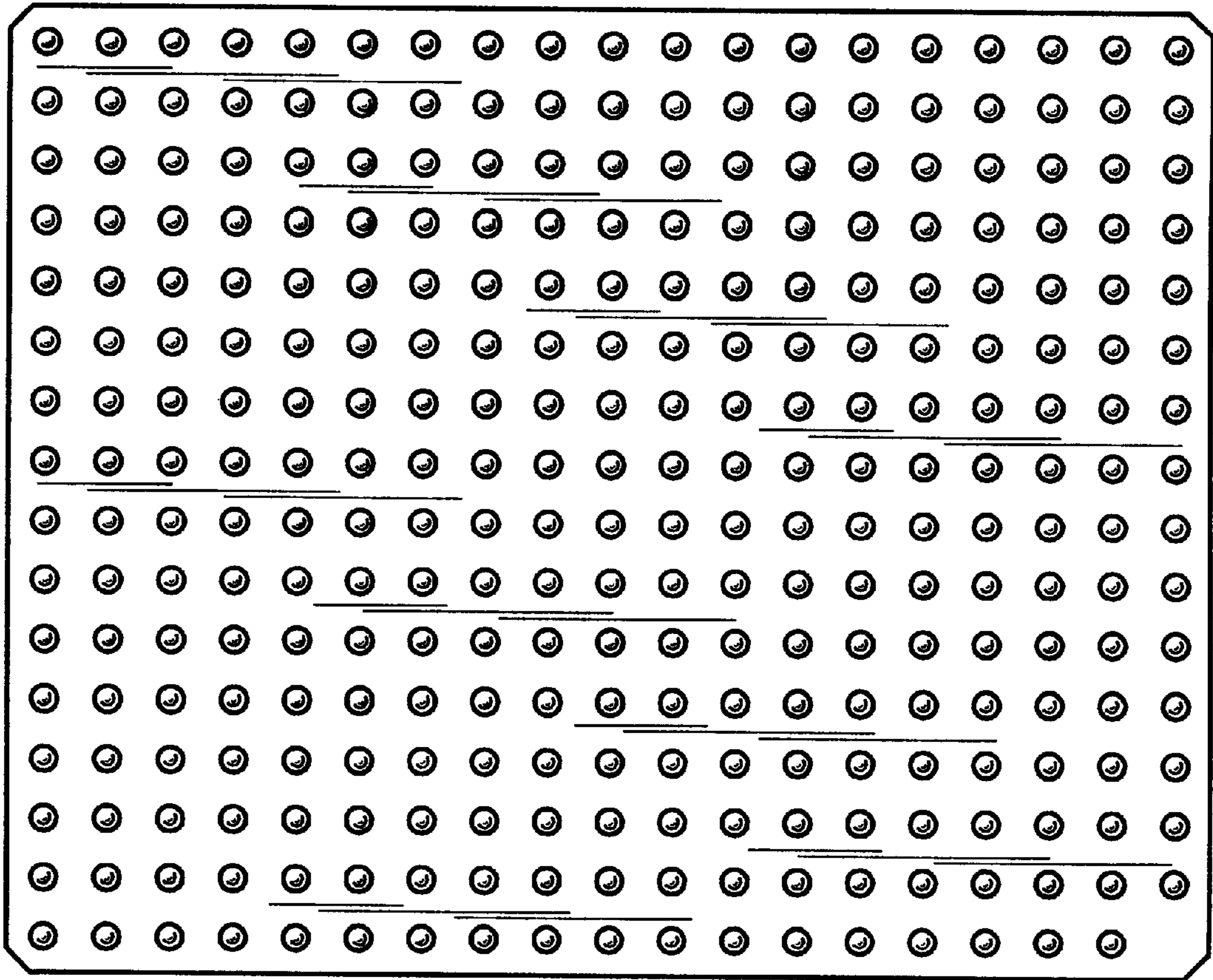
[56] **References Cited**

U.S. PATENT DOCUMENTS

3,971,902 7/1976 Wulf et al. 200/5 A

1 Claim, 3 Drawing Sheets





—FIG. 1



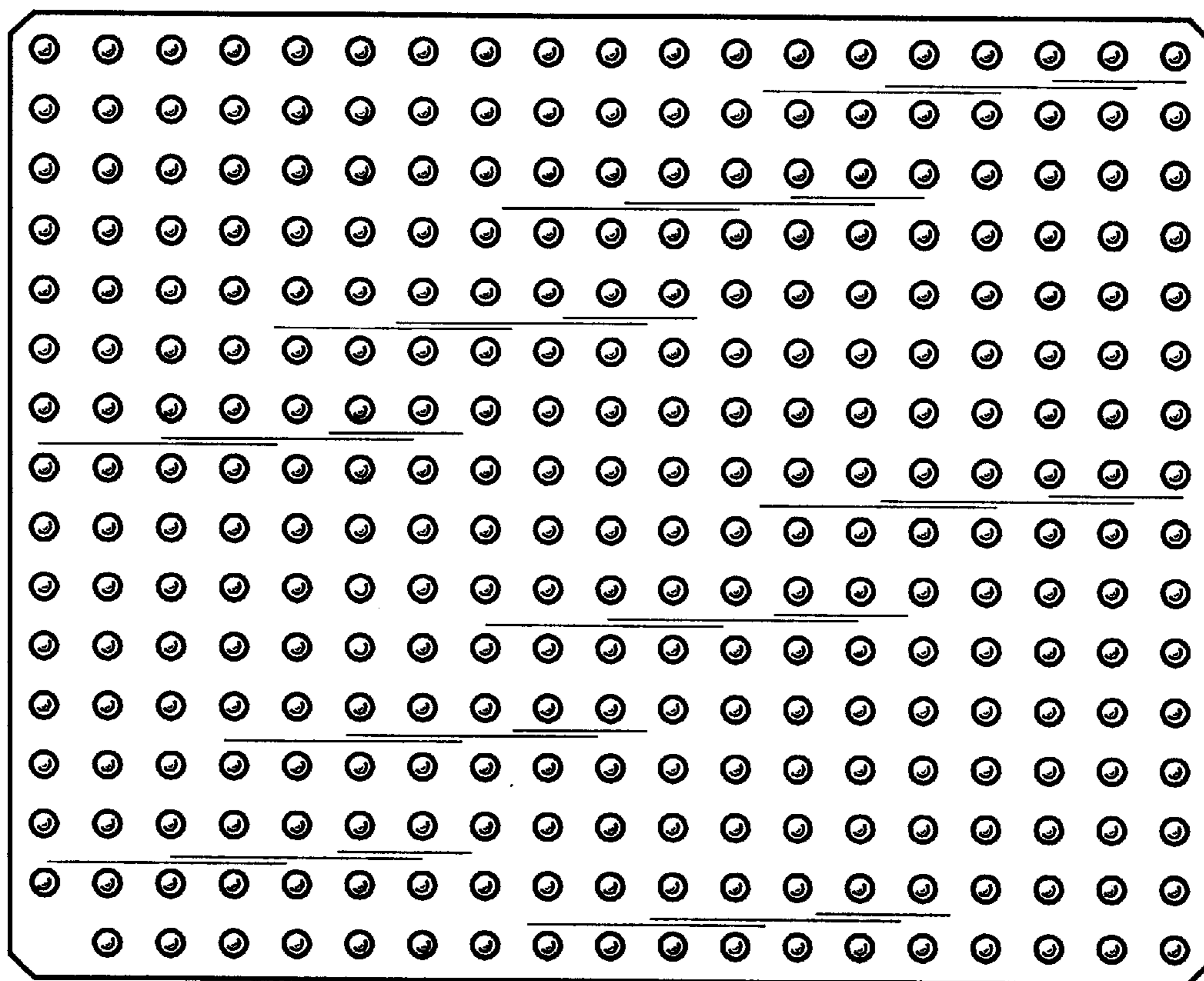
—FIG. 2



— FIG. 3



— FIG. 4



—FIG. 5